26 October 1948

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Second Meeting of the Committee on Production of Scientific Intelligence in the Field of Biological Warfare.

1. This meeting of 20 October 1948 was the second interdepartmental meeting on the working level of BW intelligence. Those who attended the meeting are listed on the attached sheet.

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2. The meeting, held in room 2519, Building M, was opened at 1000 by [redacted] chairman of the committee. [redacted] introduced the first item on the agenda, i.e. the opinions of each agency on the proposed revision of BW requirements.

3. The Army was satisfied, in general, with the proposed documents. The Navy suggested that the document was too long and repetitious, and should be further simplified, using the BW Training Manual as the basis for a factual outline. The Air Force approved of the question section but preferred more specific information, in layman's language, in the introduction.

4. Everyone agreed on the need for an explanatory introduction. There was general discussion of these questions: How much introduction? Should there be a factual outline and/or specific questions following the introduction?
The following main ideas were brought out in the discussion:

a. A full factual outline could be used as a reference document by the M/A, but too much technical detail would be confusing.

b. M/A's can furnish only information about legitimate operations, such as medical research. Real BW intelligence information will have to come from experts sent out to the field to follow up leads.

c. An outline accompanied by pointed questions is the most desirable form for BW requirements.

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5. [redacted] appointed an Ad Hoc Panel consisting of Miss Main, Dr. Johnson, Major Boggs, and himself to consolidate various opinions and formulate a single document to be presented at the next meeting.

6. The second item on the Agenda dealt with Panel structure. The following Panels were proposed:

Reports and Estimates - to produce intelligence.

Installations and Personalities - to develop a system for recording such information.

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Second Meeting Ad Hoc Committee on Production of Scientific Intelligence in the Field of Ordnance

Reference: (a) Research and Development Board Committee on Ordnance, Panel on Ammunition and Explosives, Statement of Foreign Intelligence Requirements, dtd. 4 May 1948

(b) Minutes, First Meeting Ad Hoc Committee on Production of Scientific Intelligence in the Field of Ordnance, dtd. 14 September 1948

1. Representatives Present

Department of State	--	Mr. Philip G. Strong
Department of Army	--	Dr. Louis F. Woodruff Lt. Colonel George Artzen
Department of Navy	--	Mr. J. H. Alberti
Department of Air	--	Lt. Colonel G. L. Poor Major T. W. Wolfe
Research & Development Board	--	Lt. Colonel Fred L. Whittlesey Commander D. E. Gillmer D. Z. Beckler
Central Intelligence Agency	-	25X1A9a [redacted] Commander Edward Brumby

2. The meeting was opened at 1000 on 27 September 1948 by the Deputy Chief, Scientific Branch, ORE, to consider revision of Reference (a) in terms of Reference (b).

3. Herewith Annex No. 1 showing in detail such revision as approved by the Ad Hoc Committee.

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REVISED REQUIREMENTS PANEL ON ORDNANCE
RESEARCH AND DEVELOPMENT BOARD

27 September 1948

Production in response to requirements prepared by the various panels of the Ordnance Committee of Research and Development Board will be utilized by such panels in the guidance of their research programs. These requirements are concerned with the most advanced developments in all foreign countries except Britain.

Section I. PANEL ON AMMUNITION AND EXPLOSIVES

1. Antitank Ammunition (Army)

Information desired is whether there have been any outstanding improvements in either or both of these two types;

a. A light weight, high velocity projectile having a core made from tungsten carbide.

b. A shaped charge, also referred to as hollow charge, type projectile which penetrated the armour by means of jet action.

also information on any other promising lines of development which may be underway. Information is also desired on details of gun projectiles attaining high initial velocities, including details of design construction material, dispersions obtained, propellants used, maximum gun pressures attained, etc.

2. Antiaircraft Ammunition (Army, assisted by Air)

Increased speeds of aircraft, as well as the prospective use of high speed missiles, makes it essential that antiaircraft guns be developed in which the projectiles have greatly increased range and shorter times of flight. The solution requires a combination of guns of increased power and ammunition of improved ballistics. Information

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Technical Information - (a) to incorporate technical matter in reports; (b) to screen technical material for use by U.S. scientists.

Collection: Overt and Covert

7. It was suggested that offices to be represented, rather than names, should be placed on panels, and that the offices should make their own nominations.

8. The proposed panel structure, with criticism and recommendations, will be discussed at the next meeting of the Committee.

9. Temporarily, the Committee will meet on alternate Wednesdays. The next meeting is scheduled for 3 November 1948, room 2519, Building M, at 1000.

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Roster of Persons Attending a Meeting on IW Intelligence, 20 October 1948

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[redacted]	-	CIA
	-	CIA
Major W. C. Baird	-	Operations - Air Force
Major Wm. F. Sheeley	-	Operations - Air Force
Major A. J. Boggs	-	Defensive Air Branch, Air Intelligence, USAF
V. O. Johnson	-	Scientific Branch Logistics Division, IDGUSA
A. R. Turner, MD	-	Surgeon General - US Army
Major Allen W. Spencer	-	Chemical Corps
E. Wetter	-	Secretariat of Committee "X"-RDB
Edna R. Main	-	ONI - Operations
H. I. Stubblefield	-	Chemical Corps

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9. Aircraft Ammunitions (Air)

Information is desired on foreign aircraft combustible cartridge development, including:

a. Super or hyper velocities

b. Types of powder, flashless or other

c. Projectile and cartridge weights & capabilities

10. Armament Trend (Air)

Will offensive and defensive aircraft armament follow a pattern of single shot kill philosophy or multiple machine gun installation?

Section VI. Panel on Ordnance Materials (CIA, assisted by Air, Army & Navy)

1. Information bearing on development of low temperature rubber like materials (elastomers).

2. Information bearing on basic studies of the fracture and deformation of ferrous and non-ferrous metals.

of any guns, recoilless guns, rocket launchers -- if so, what are the rates of fire, and the weights and velocities of projectiles?

2. Has caliber of rifles been changed from 7.62 mm? If so, to what caliber — what is the weight and velocity of such projectiles?

3. Has smoke and flash been eliminated from any weapon, and if so, how?

4. Has there been any improvement in materials for ordnance application -- if so, how?

5. What is being done in the use of high speed hydraulic servo equipment? (Speeds in the nature of 10,000 RPM).

6. What progress is being made toward attaining high velocity (over 4,000 ft/sec) - what direction - squeeze base, sabot, - rocket propelled, etc.?

7. What are the trends in loading devices for larger caliber AA guns, for example, automatic, mechanical or mechanical assistant?

8. Aircraft Weapons (Air)

Detailed information on foreign aircraft weapons is desired. The following items are pertinent:

a. Use of standard type guns.

b. Use of recoilless weapons

c. In regard to a and b above

(1) What are muzzle velocities?

(2) What are rates of fire?

(3) What ranges for accurate fire?

(4) What kinds of feeding or loading mechanisms?

(5) What projectile weights

d. Rocket launchers

Section III. Panel on Fire Control

1. Types of Foreign Aircraft (Air)

Information is desired on types of foreign aircraft to include the following:

a. Dimensions and configurations where possible

b. Types of operations for which designed

c. Normal operating altitudes

d. Speeds at operating altitudes

e. Capabilities for evasive action during, prior to, or after performance of primary mission.

f. Size and types formations expected

g. Capabilities for day operations, night operations, or both

h. Maximum and minimum bomb run times

2. Damage Control (Air)

What actions are planned for making aircraft less vulnerable to antiaircraft fire.

Section IV. Panel on Underwater Ordnance (State, assisted by Navy)

1. What quantities of submarine cable, particularly steel wire or steel tape armored, are being produced annually, with special reference to marked increases of previous normal production rates?

2. What developments are being pursued in the nature of countermeasures to homing torpedoes for use either by submarines or surface craft?

Section V. Panel on Guns (Army)

1. are there indications of a material change or improvement

2. What is the magnitude and expected use of land mines against tanks and amphibious craft?

3. Gas Turbines (Army)

Information is desired on gas-turbine designs suitable for vehicles, installations, and on installation and use of such gas-turbines in vehicles. Data desired includes weight, horsepower and torque from stall to maximum speed, fuel consumption, dimensions, installations, related transmission units, and detail and general description, as available.

4. Arctic Operation of Wheeled Vehicles (Army)

Information desired covers all phases of vehicle design and operation under arctic conditions, including data pertaining to winterization kits, methods of starting at extreme low temperatures, standby heating, low temperature batteries, crew compartment heating, windshield defrosting, insulation, sealing, tractive devices for operation in snow, special tire or tread designs, material suitable for low temperature use, means to prevent ice-fogging from exhaust useful on vehicle equipment for arctic use, maintenance of vehicles under arctic conditions, and related data.

5. Bomb Handling (Air)

Detailed information is desired on the various phases of bomb handling, to include:

a. Storage

b. Bomb trailers

c. Towing vehicles with winch equipment

d. Bomb loading pits

e. Lift equipments for special handling problems

is desired specifically on developments in projectile or missile shapes which result in reduced air resistance or other means of minimizing the loss in velocity after the projectile leaves the gun.

3. Bombs for High Speed Aircraft (Air)

Detailed information is desired on bombs designed to obtain stabilized launching at high speed including supersonic speeds from high speed aircraft. Such information should include details on bomb shapes, methods of carrying, methods of launching, etc.

4. High Velocity Rockets (Army, assisted by Air and Navy)

Information is desired on the details of both propellants and motors of rockets with high velocities.

5. Antiaircraft Artillery (AAA) Defense (Air)

What are foreign AAA capabilities in air defense against:

a. Strategic bombing missions of high or medium altitude with either reciprocating-engined or jet-engined aircraft.

b. Tactical air missions of medium or low altitude with high speed aircraft of either medium bomber or fighter types.

Section II. Panel on Armor and Vehicles (Army)

1. Do foreign antiaircraft and antinaval weapons tend to stress the blast effect such as bombs and guided missiles rather than the piercing or fragmenting type of attack, such as gun fire?